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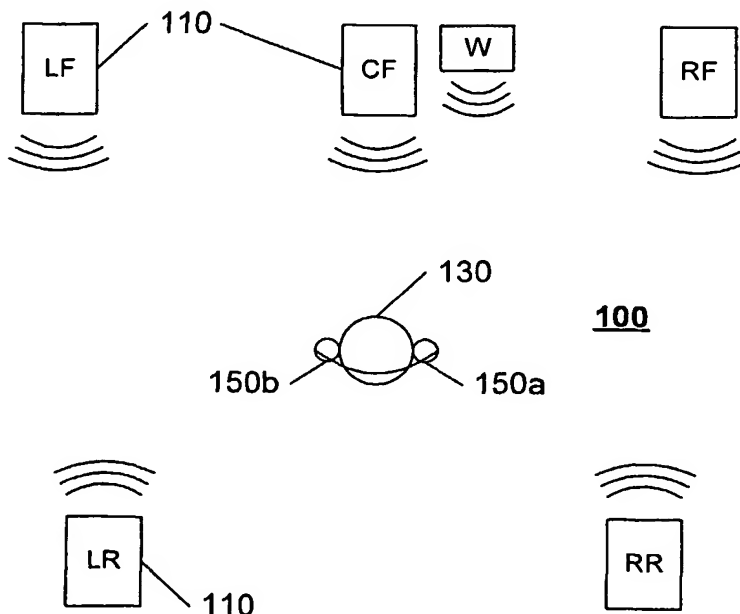
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[Continued on next page]

(54) Title: PERSONALIZED SURROUND SOUND HEADPHONE SYSTEM



(57) Abstract: A system and method determines parameters (170) for rendering headphone audio information, based on a user's preferred acoustic rendering in a non-headphone environment. A user configures a loudspeaker-based system for a preferred ambiance. Microphones (150) on a head-mounted device then detect the audio signals received by the user in this environment. These detected signals are compared to the audio information that is being provided by the user's audio system and the differences are used to characterize the user's particular environment. Based on this characterization, when the user uses a headphone device (250) to listen to the audio information, a headphone driver (260) modifies the audio information to produce audio signals at the speakers in the user's headphone (250) to effectively reproduce the audio signals that would have been produced at the user's ears by the loudspeakers

(110) in the user's particular environment.

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**A. CLASSIFICATION OF SUBJECT MATTER**  
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**B. FIELDS SEARCHED**

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Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 01/49066 A (KONINKL PHILIPS ELECTRONICS NV) 5 July 2001 (2001-07-05) page 2, line 1 - page 3, line 21 page 10, line 6 - line 21 page 12, line 30 - page 13, line 17 figures 2-4,7	1-20
X	WO 02/078389 A (SCHOBEN DANIEL W E ; KONINKL PHILIPS ELECTRONICS NV (NL)) 3 October 2002 (2002-10-03) the whole document	1-20
A	US 4 739 513 A (YOSHIMI TOSHIKAZU ET AL) 19 April 1988 (1988-04-19) column 7, line 1 - column 8, line 26 column 11, line 38 - line 57 figures 9,19	1-20

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☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>WO 02/071797 A (BAR ON AMIR ; BE4 LTD (IL); COHEN YUVAL (IL); LEVY HAIM (IL); NAVEH GI) 12 September 2002 (2002-09-12) page 11, line 6 - page 12, line 9 -----</p>	1-20

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